

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21446 - L2 Version 1
Chandra X-Ray Center

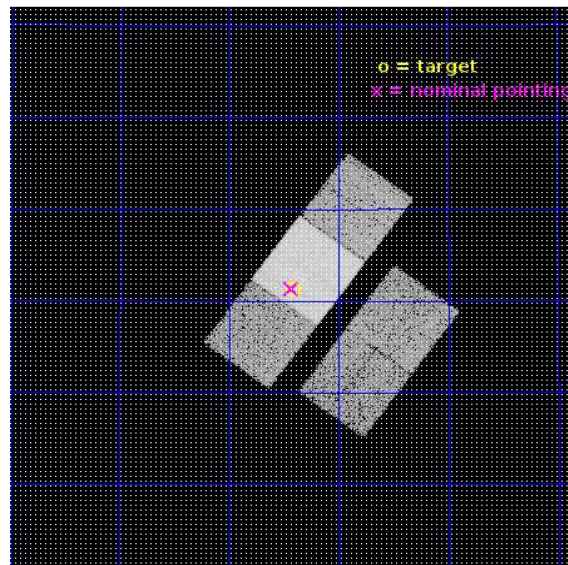
L2 Processing Date : Mar 27 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

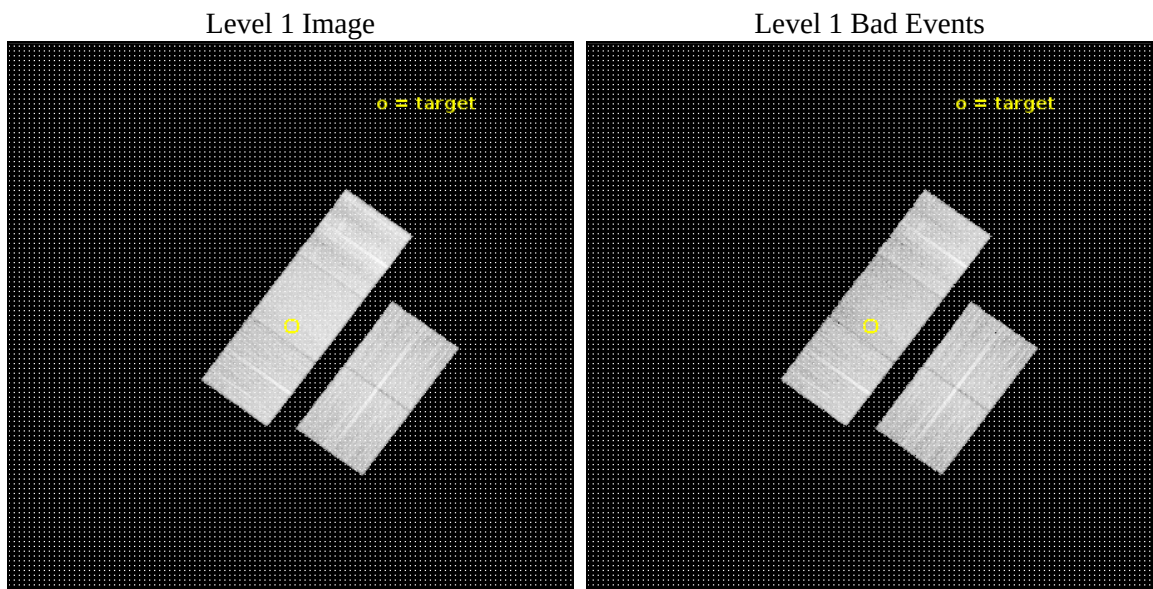
seq_num	703743	Sequence number
obs_id	21446	Observation id
title	Testing Mid-Infrared AGN Selection in Dwarf Galaxies with Chandra and HST	Proposal title
observer	Amy Reines	Principal investigator
object	J032224.64+401119.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.6025	Observer's specified target RA [deg]
dec_targ	40.188833	Observer's specified target Dec [deg]
ra_nom	50.608049965073	Nominal RA [deg]
dec_nom	40.189263508397	Nominal Dec [deg]
roll_nom	306.15299696195	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15053.600115895	Sum of GTIs [s]
livetime	14856.913748082	Livetime [s]
ontime2	15053.586137414	Sum of GTIs [s]
ontime3	15053.600115895	Sum of GTIs [s]
ontime6	15053.600115895	Sum of GTIs [s]
ontime7	15053.600115895	Sum of GTIs [s]
ontime8	15053.600115895	Sum of GTIs [s]
l2events	110664	Number of level 2 events



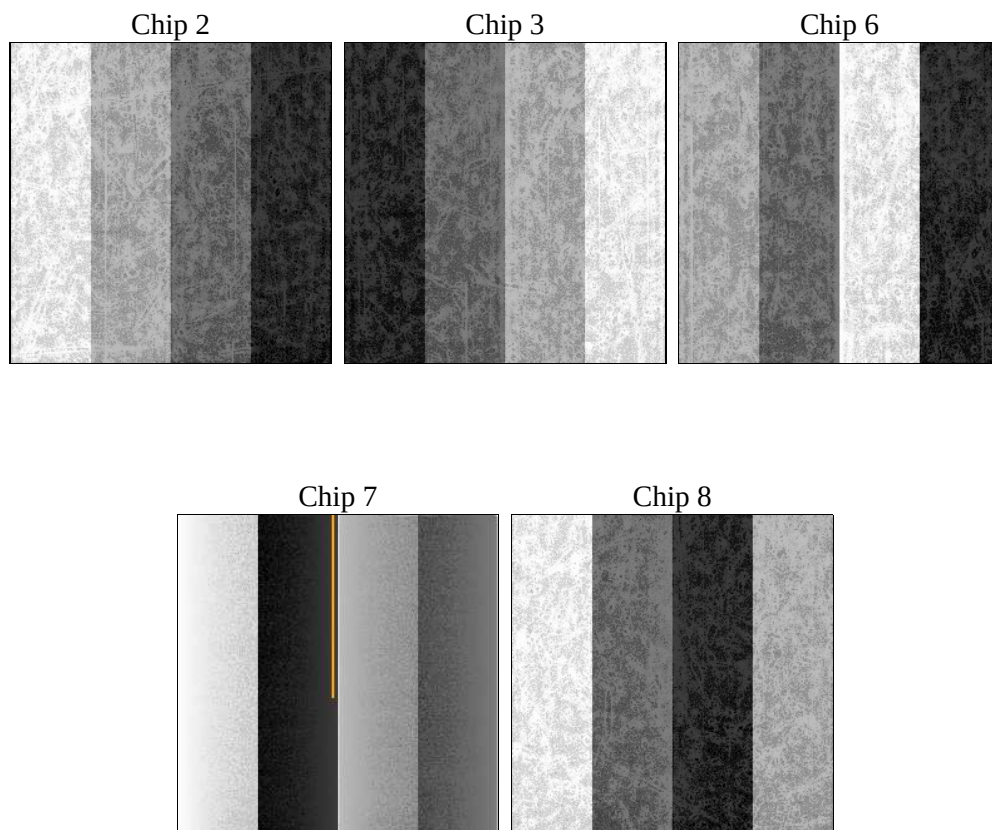
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	15053.600115895	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	15053.586137414	Sum of GTIs [s]
date	2019-03-27T04:27:38	Date and time of file creation	ontime3	15053.600115895	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15053.600115895	Sum of GTIs [s]
			ontime7	15053.600115895	Sum of GTIs [s]
			ontime8	15053.600115895	Sum of GTIs [s]
			l1events	650459	Number of level 1 events

2.1.4 Events

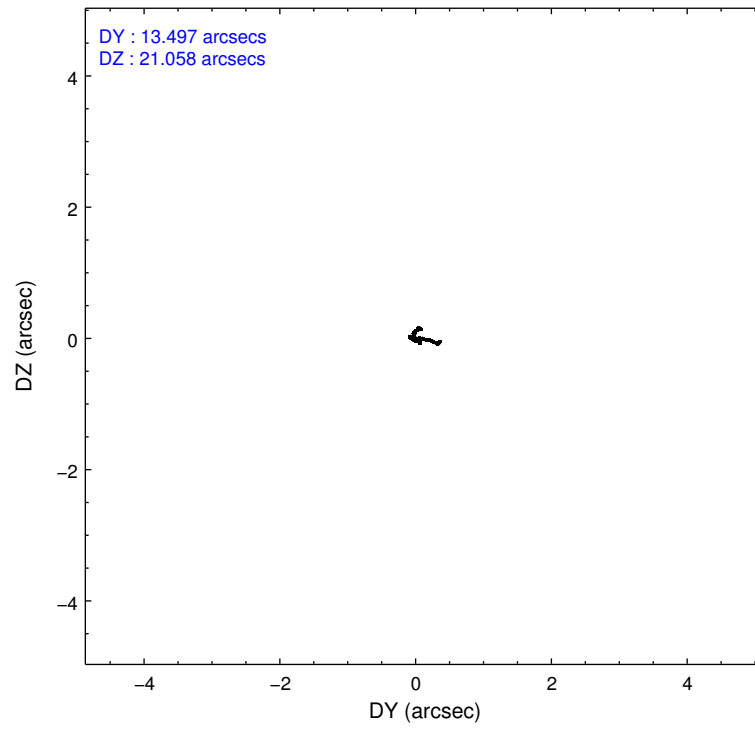
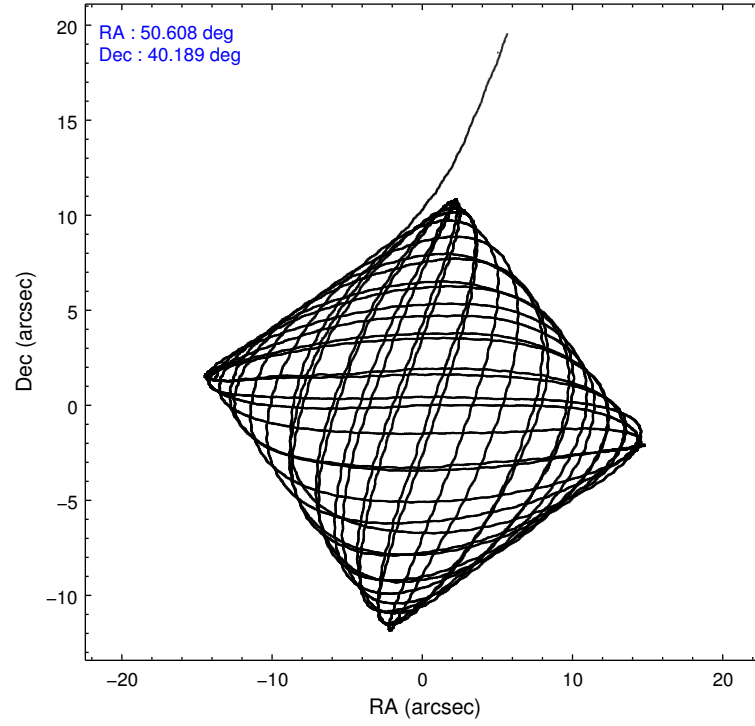
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	112055	114372	116846	148249	158937
rejected events	99667	101678	103763	83633	113789
rejected %	88%	88%	88%	56%	71%

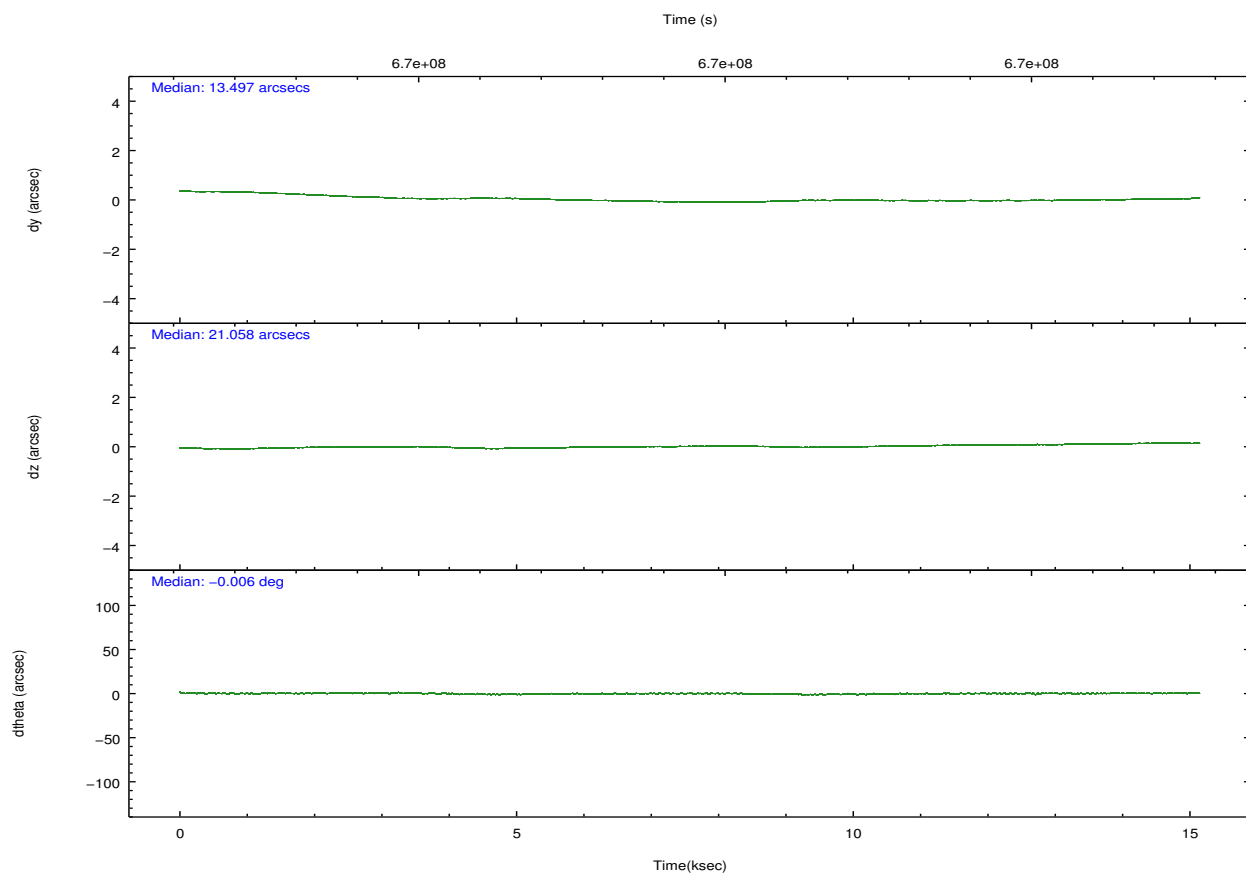
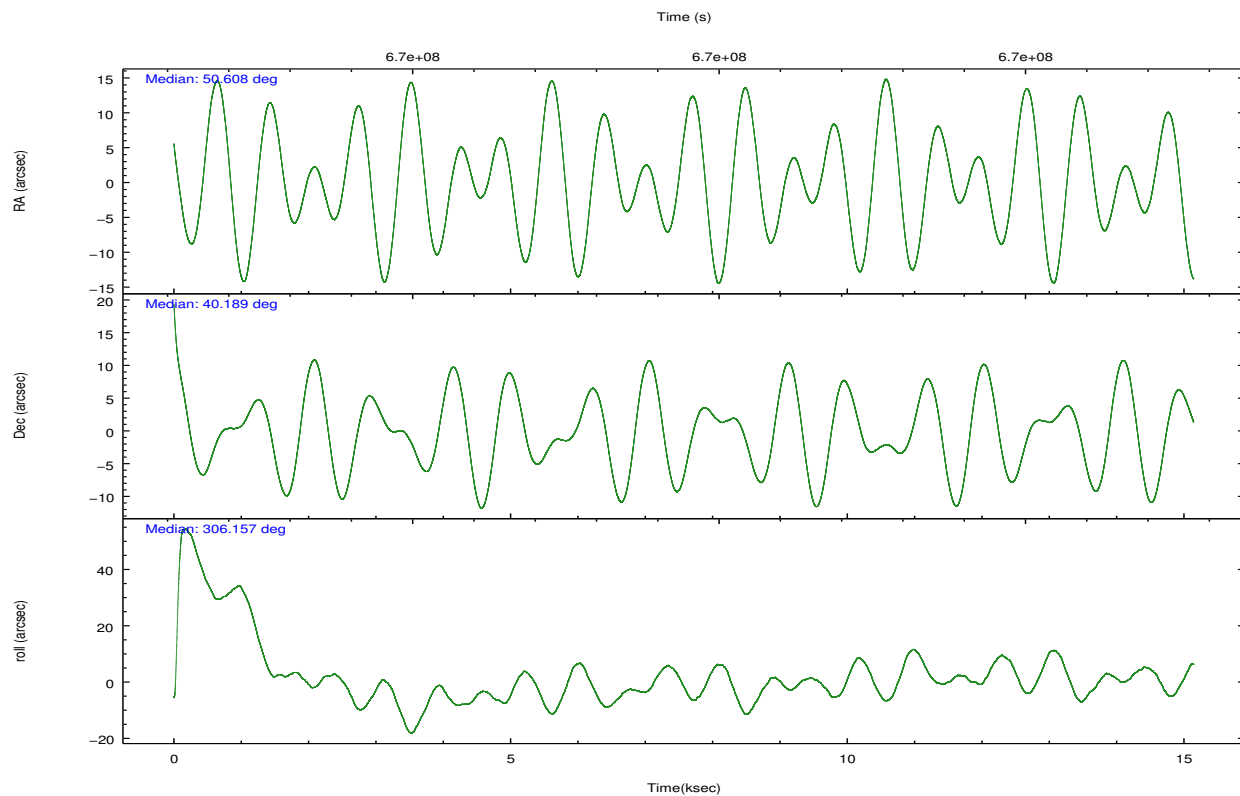
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4275	4943	4278	5498	13280
	3%	4%	3%	3%	8%
grade 1 events	60	64	56	231	133
	0%	0%	0%	0%	0%
grade 2 events	3181	2688	3164	14046	10777
	2%	2%	2%	9%	6%
grade 3 events	1228	1278	1291	5031	4518
	1%	1%	1%	3%	2%
grade 4 events	1240	1253	1298	4989	4420
	1%	1%	1%	3%	2%
grade 5 events	4534	5650	5568	14791	8327
	4%	4%	4%	9%	5%
grade 6 events	2467	2535	3054	35065	12159
	2%	2%	2%	23%	7%
grade 7 events	95070	95961	98137	68598	105323
	84%	83%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	50.575008	50.60804996507261	CCD I2 on	Y	Y
[deg] Pointing Dec	40.200006	40.18926350839722	CCD I3 on	Y	Y
[deg] Pointing Roll	306.017743	306.1529969619499	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	Y
[s] Observation start time (MET)	669991981.184000	669990413.536	CCD S5 on	N	N
Observation start date	2019-03-26T12:51:52	2019-03-26T12:26:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	670006981.184000	670008086.58706	On-chip summing requested	N	N
Observation end date	2019-03-26T17:01:52	2019-03-26T17:21:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



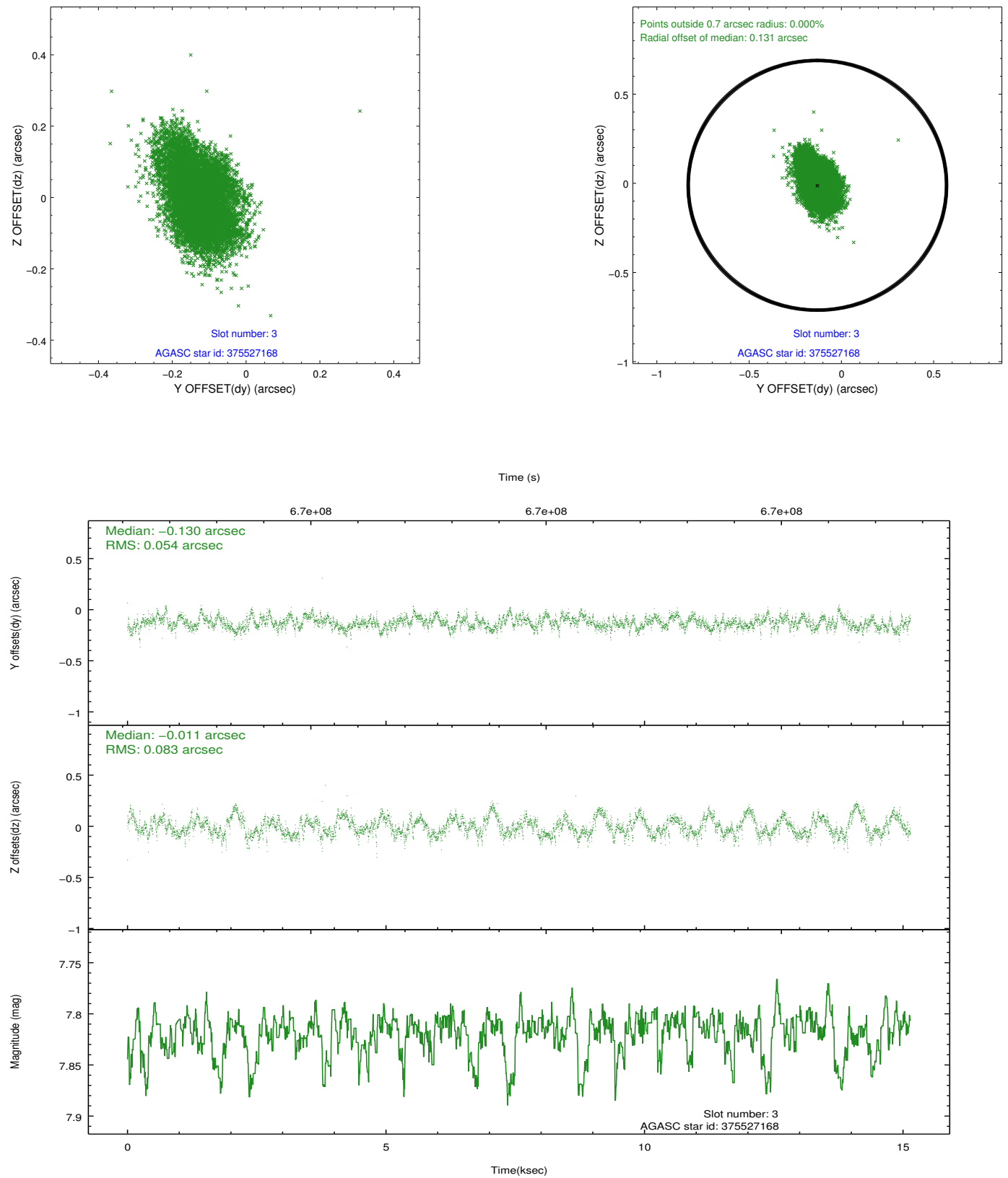


Slot Statistics

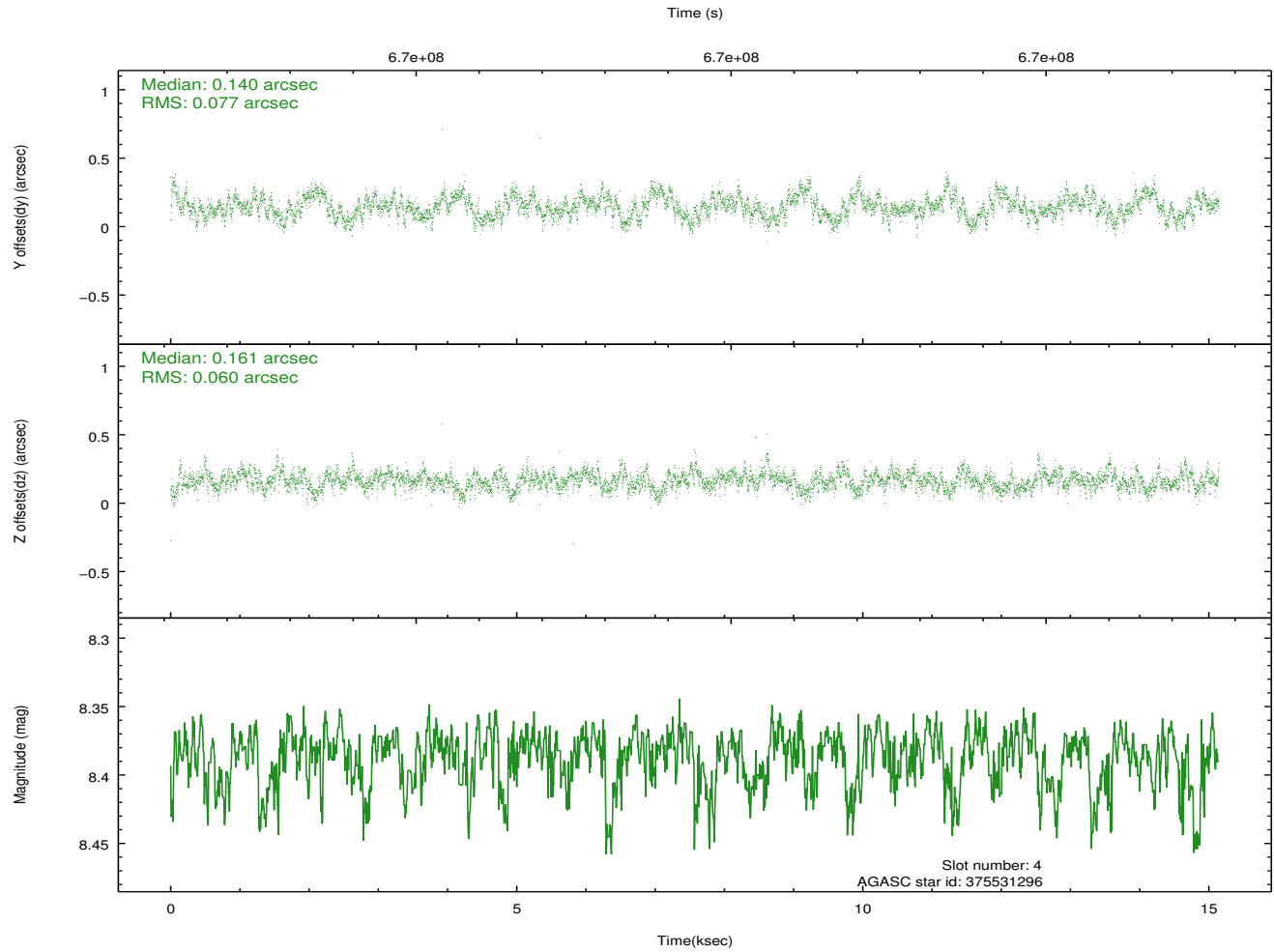
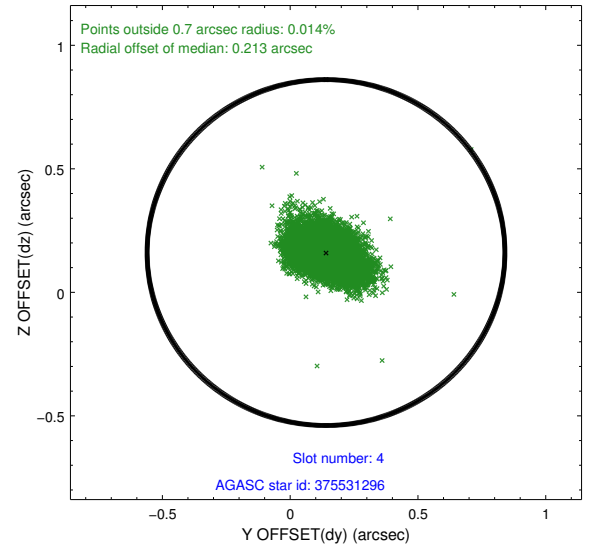
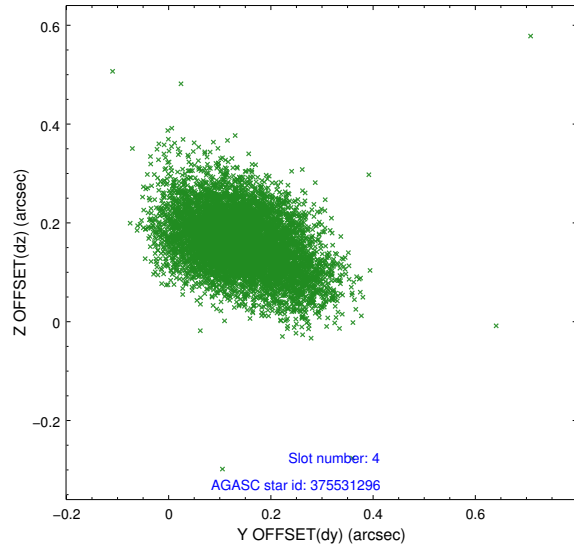
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	3694	1.000	-0.290	-0.126	0.008	0.014	0.000000	0.000000	-766.68	-1742
1	FID		ACIS-S-4	7.09	3694	1.000	0.695	0.174	0.010	0.024	0.000000	0.000000	2147.36	165
2	FID		ACIS-S-5	7.06	3693	1.000	-0.437	-0.040	0.009	0.015	0.000000	0.000000	-1819.37	159
3	GUIDE	used	375527168	7.82	7385	1.000	-0.130	-0.011	0.105	0.174	50.968367	40.629276	-619.65	1779
4	GUIDE	used	375531296	8.39	7380	1.000	0.140	0.161	0.102	0.171	50.781952	40.166954	430.70	390
5	GUIDE	used	375531880	9.26	7377	1.000	0.044	-0.120	0.172	0.265	51.258882	40.021479	1622.85	1150
6	GUIDE	used	375532312	6.92	7388	1.000	-0.063	-0.042	0.112	0.171	51.110353	40.043849	1319.34	865
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

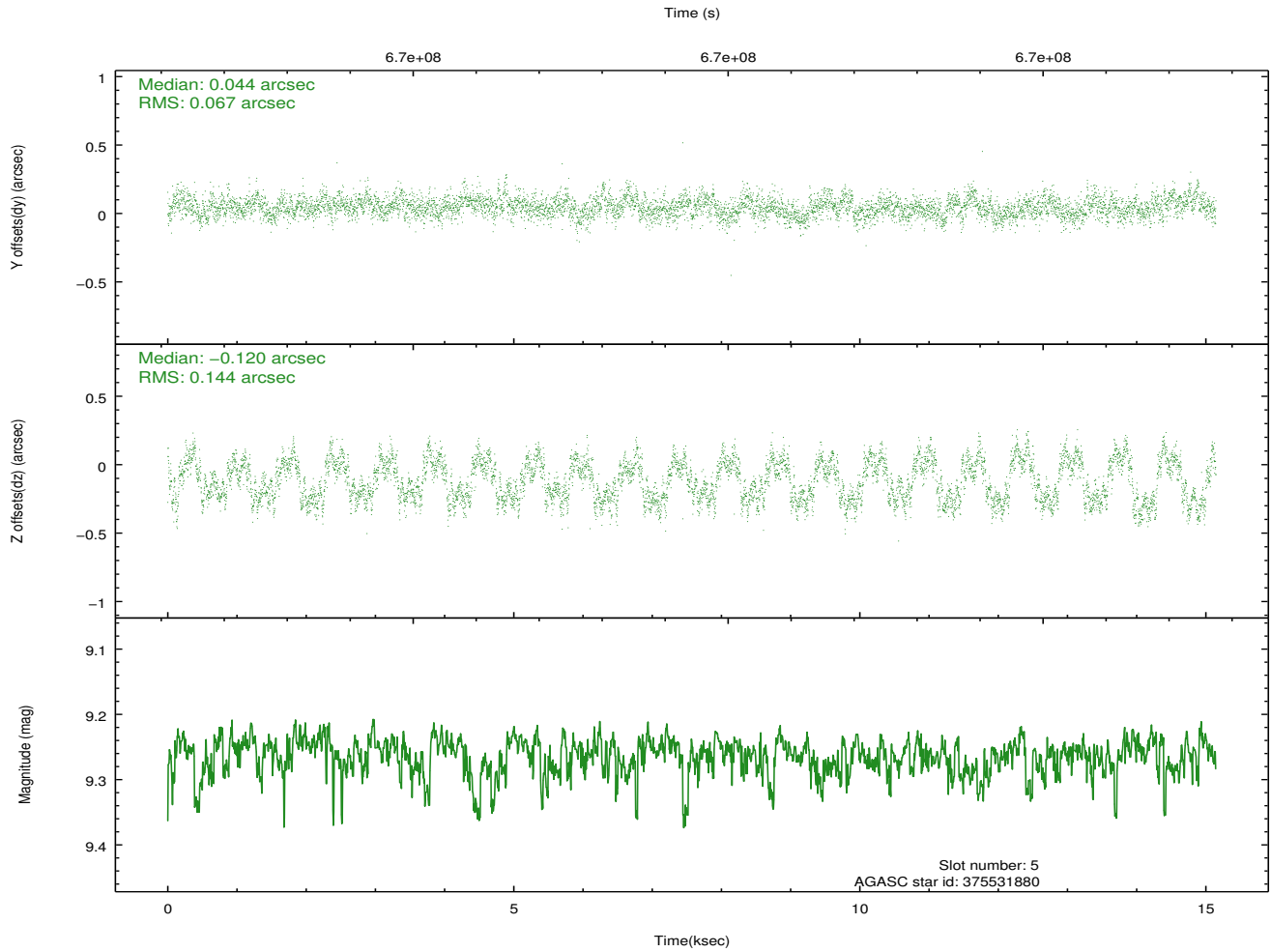
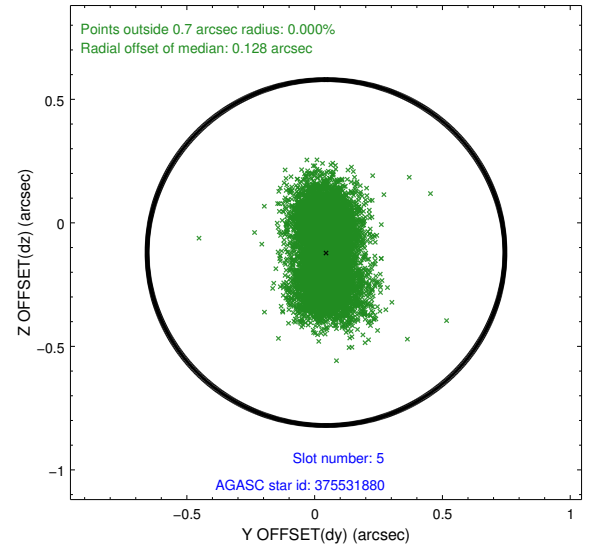
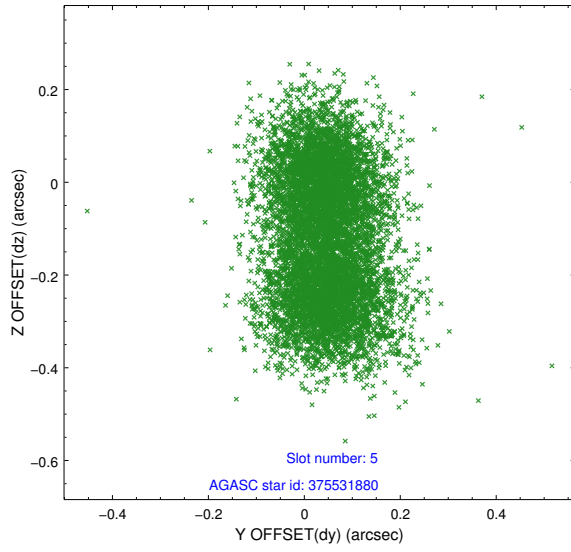
2.4.1 Slot 3



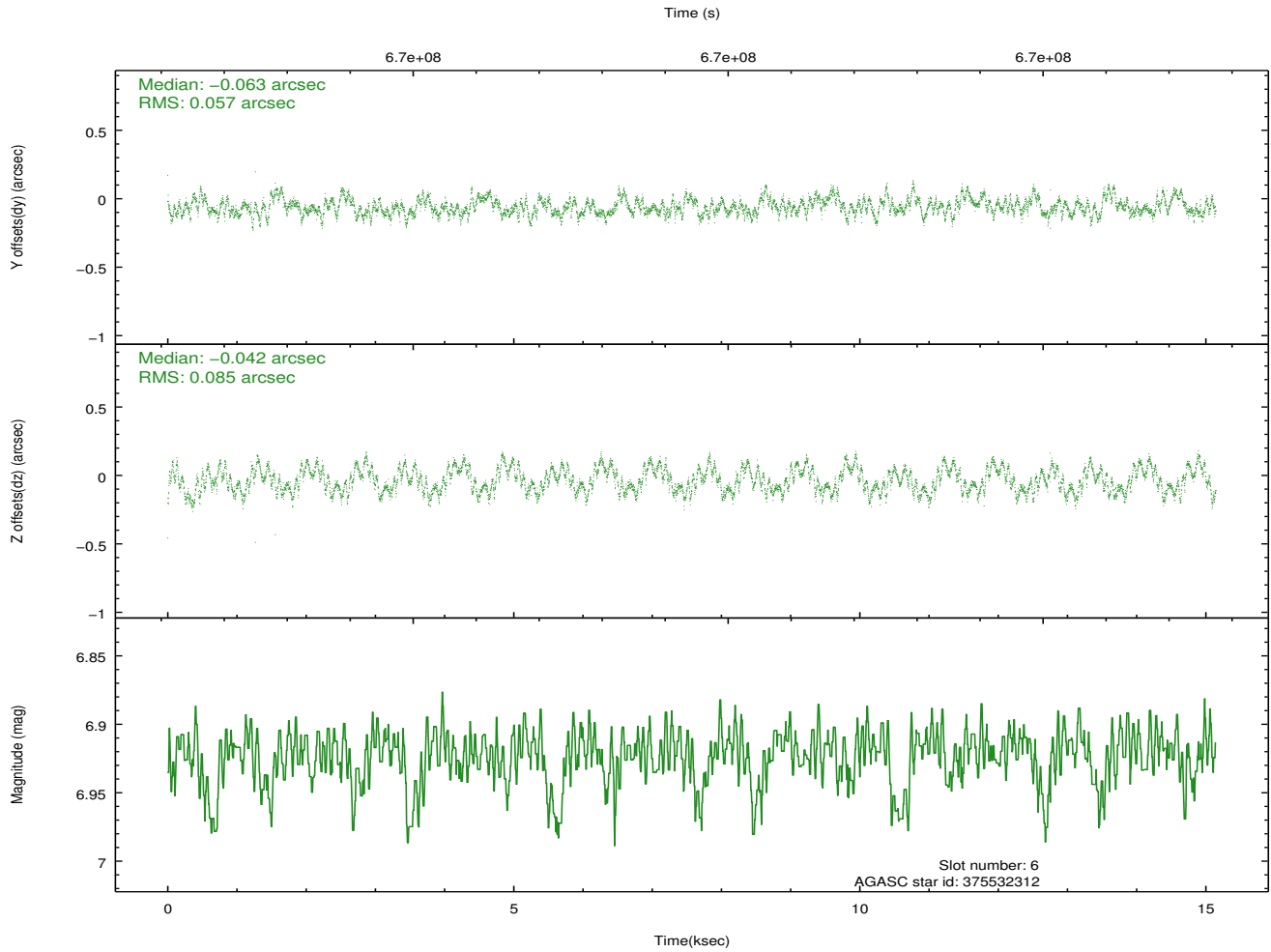
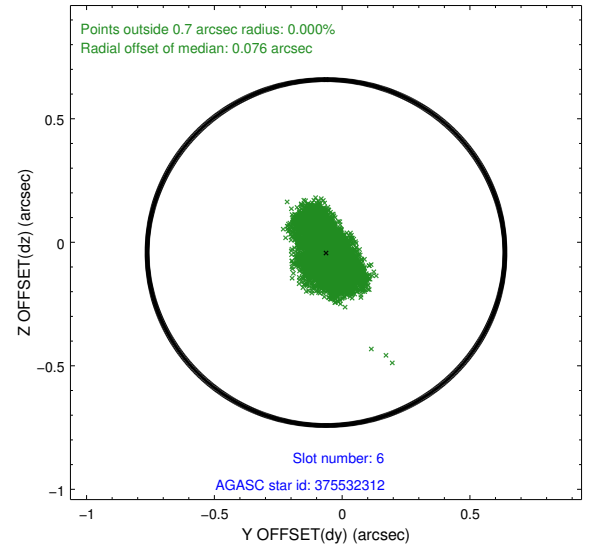
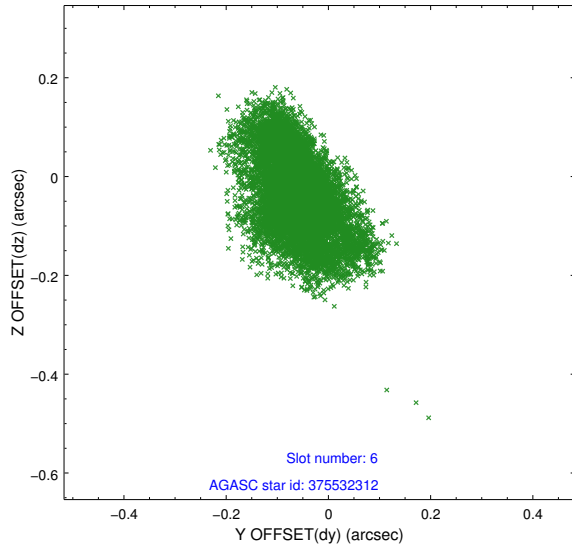
2.4.2 Slot 4



2.4.3 Slot 5

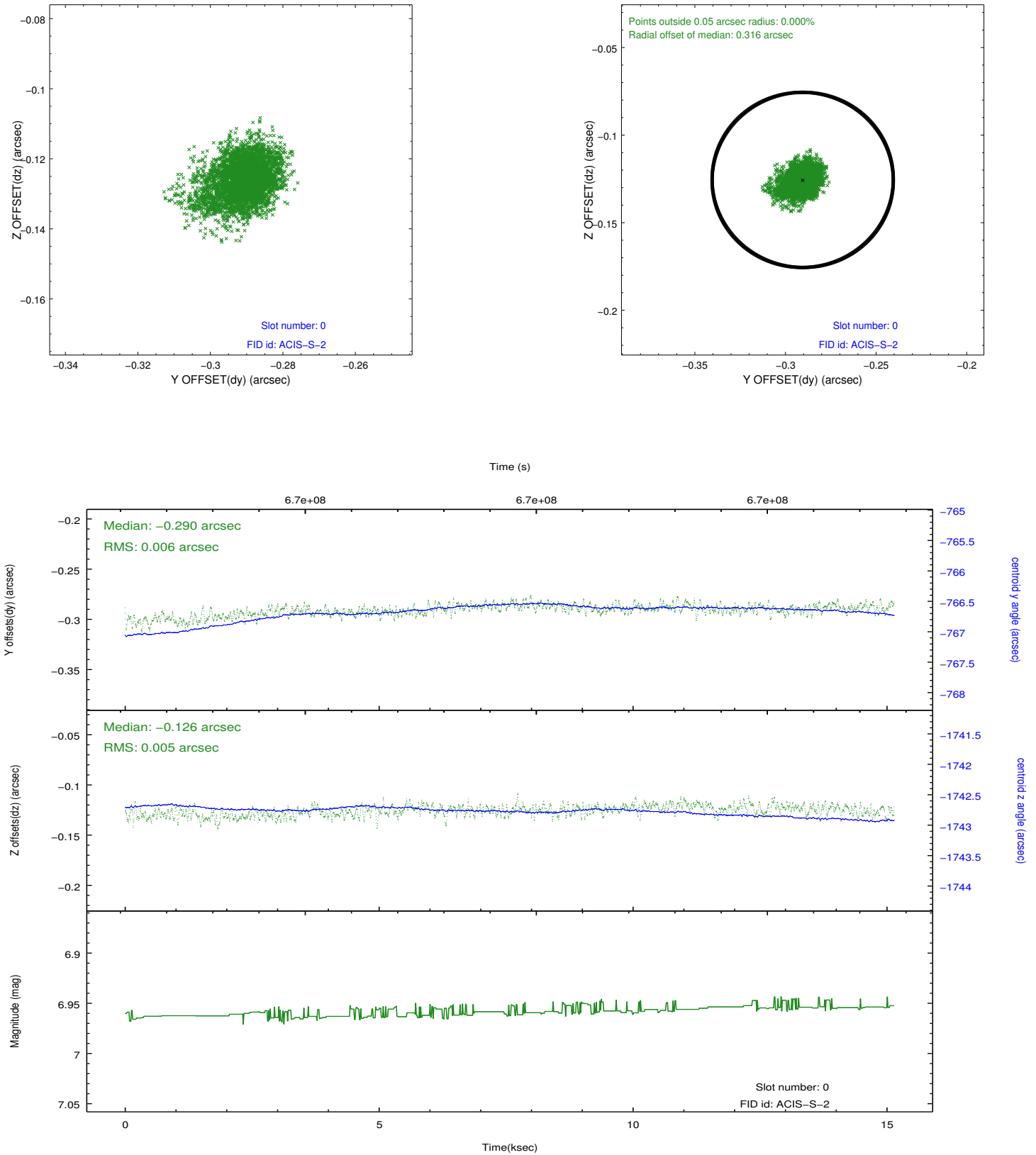


2.4.4 Slot 6

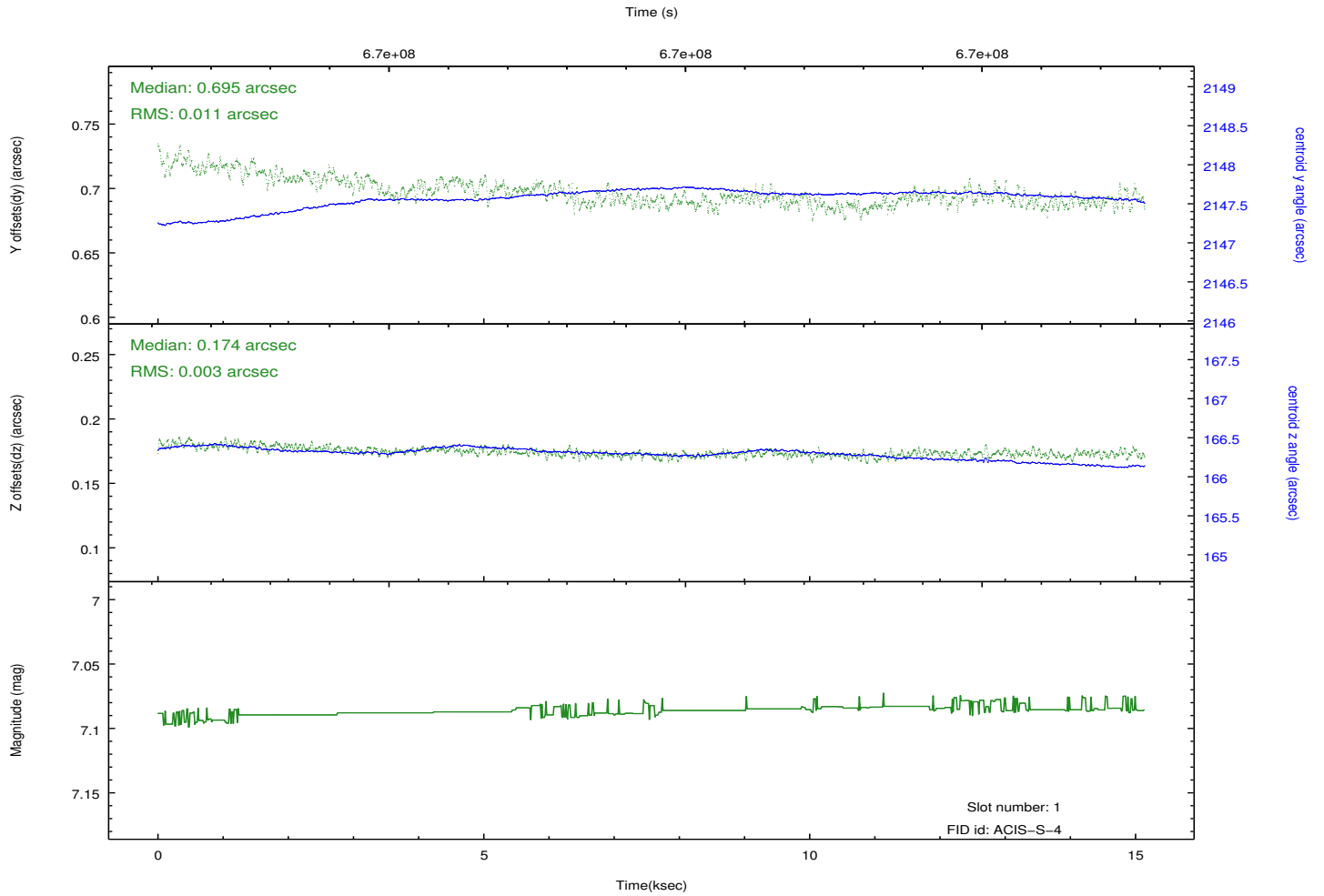
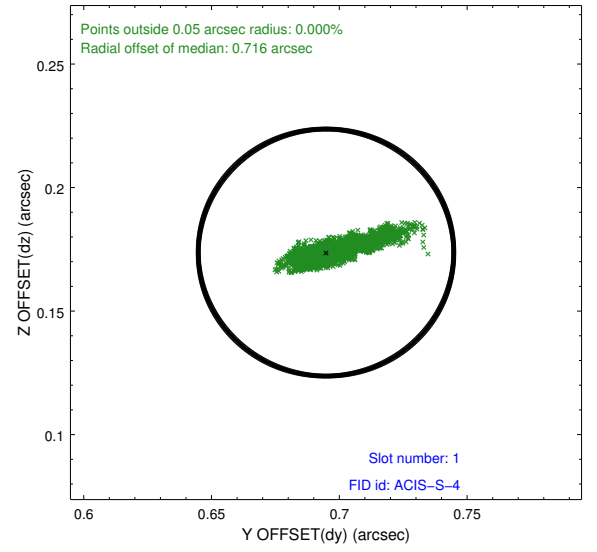
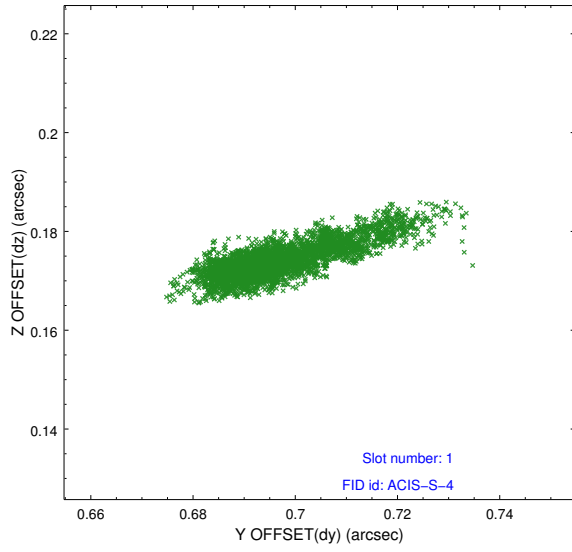


2.5 FID Slots

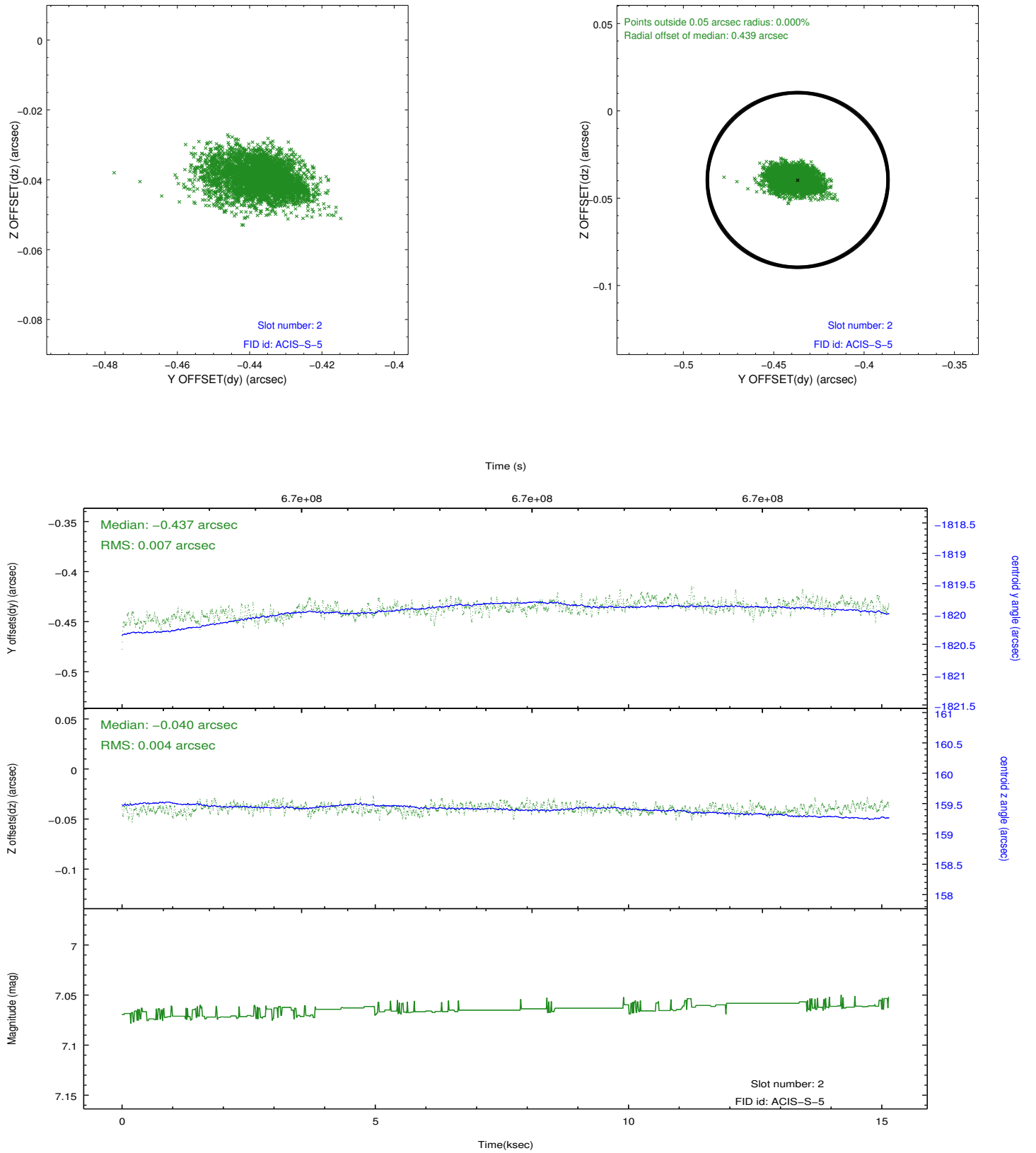
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.053600115895

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.